

**SUPERIOR BRASS & ALUMINUM CASTING CO.**  
**4893 Dawn Ave.**  
**East Lansing, MI 48823**

ANNUAL REPORT OF HAZARDOUS WASTE EXPORTS FOR CALENDAR YEAR 2012

1. PRIMARY EXPORTER (Consignor)  
Name: Superior Brass & Aluminum Casting Co.  
EPA ID No: MID005339155  
Mailing Address: 4893 Dawn Avenue  
City: East Lansing State: MI Zip Code: 48823  
Site Address: 4893 Dawn Avenue  
City: East Lansing State: MI Zip Code: 48823
2. CALENDAR YEAR: 2012
3. DESIGNATED DISPOSAL FACILITY (Consignee)  
Name: Newalta Corporation  
Address: 1731 Pettit Road  
Fort Erie, Ontario, Canada L2A 5M4  
EPA ID No: MIK982753857
4. WASTE SENT to NEWALTA CORPORATION:  
Waste Information:  
Description of Waste: Waste Bag House Dust/Filters  
EPA Hazardous Waste Number: D008 (lead) and D006 (Cadmium)  
DOT Proper Shipping Name: Waste Environmentally Hazardous  
Substance, Solid, NOS  
DOT Hazard Class: 9  
DOT ID Code (UN/NA): UN3077  
  
Under:  
US EPA Acknowledgement Numbers:  
002507/4E/11, (May 20, 2011 – May 19, 2012)  
004681/4E/12, (June 02, 2012 – June 01, 2013)  
  
Environment Canada Permit Numbers:  
11/02507/IMP, (20 May, 2011 – 19 May, 2012)  
12/04681/IMP, (04 June, 2012 – 01 June, 2013)  
  
Shipping Information:  
Number of Shipments during Calendar Year: Two (2)  
a. On 04/24/12 shipped 1,407 pounds (638 kgs) in 16, 55-gallon drums, via  
transporter:  
Harold Marcus Limited  
EPA ID No: MIT270012321

received  
SON 2/23/2013

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- b. On 10/16/12 shipped 1,441 pounds (654 kgs) in 16, 55-gallons drums,  
via transporter:  
Harold Marcus LTD.  
EPA ID No: MIT2710012321
- c. Total Volume of Waste shipped in calendar year 2012 summary:  
Two shipments totaling 2,848 pounds, (1,292 kgs) in 32, 55-gallon drums.

5. WASTE MINIMIZATION STATEMENT  
☐ Not Required this year  
☒ Attached

6. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Signed:  Date: 02-20-13



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2012 WASTE MINIMIZATION STATEMENT  
FOR WASTE BAGHOUSE DUST

I. PRODUCTION

Waste baghouse dust is the collection of fumes generated by the melting of brass/bronze ingots. Lead and cadmium are the main toxic elements found in the fumes from our brass and bronze alloys melted resulting in the need to dispose of a hazardous waste. Cadmium is not even listed as a composition element in any of our brass/bronze alloys. Cadmium has been found only in trace amounts in these alloys and will difficult to minimize. Lead will be the main focus of waste minimization. The collected fumes from the melting of these alloys pass through a dust collector where dust particles are removed from the air stream. The quantity and quality of this waste is based on customer orders for various brass/bronze parts pour out of various alloys. Based on our customer orders, Superior Brass & Aluminum Casting Co, (Superior Brass) in calendar year 2012 poured eight different brass/bronze alloys.

SUPERIOR BRASS - BRASS/BRONZE ALLOYS POURED IN 2012

ALLOY ASTM DESIGNATION	ALLOWABLE % LEAD IN EACH ALLOY (by weight)
C83600 (85-5-5-5)	4.0 -6.0 %
C86200 (423 MnBr)	Maximum 0.2 %
C86300 (424 MnBr)	Maximum 0.4 %
C86400 (420 MnBr)	0.5 – 1.5 %
C86500 (421 MnBr)	Maximum 0.4 %
C86700 (422 MnBr)	0.5 – 1.5 %
C87600 (Sil Br)	Maximum 0.09 %
C99500 (NDZS specialty)	Maximum 0.09 %

II. MINIMIZATION

(Discussion is based on total part weight)

Superior Brass continues to address the minimizing of our hazardous waste (lead) through the offering of alternative alloys for our customers parts. However, due to the economy Superior Brass did accept orders for parts made of the higher lead C83600 alloy. Due to customer orders, the amount of parts made of C83600 alloy actually increased by approximately 100% compared to the same alloy in 2011. C83600 alloy parts made up less than 6% of all the parts Superior Brass made in 2012. We were able to work with our customers and were able to switch several parts originally made of C83600 to the C87600 alloy, silicon bronze. C87600 allows only a maximum of 0.09% lead as compared to the C83600 alloy which allows 4 to 6% lead. Superior Brass made more than 40% more parts in 2012 than in 2011. Our C87600 alloy parts increased by over 230% compared to same alloy in 2011. Each year since 2009 the average lead toxicity in mg/kg has decrease until this reporting year, 2012. The average toxicity of lead

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in 2012 is still below the average lead toxicity of lead in 2009. Our intent will continue to be to reduce the amount of parts Superior Brass makes out of the higher C83600 alloy thus reducing the amount of lead that potentially gets into our waste. We will continue to offer alternative alloys to our customers for their parts. We hope these alternative alloys will be considered by our customers thus allowing the quantity and quality of our hazardous waste to decrease in the future.

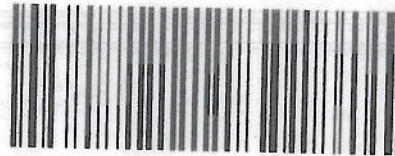
**Superior Brass & Aluminum Casting Co.**

*Quality Castings Since 1924*

4893 Dawn Avenue

East Lansing, Michigan 48823-5694

**CERTIFIED MAIL™**



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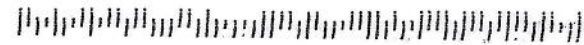


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